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## SOUTHEASTERN AREA

# SOUTHERN PINE BEETLE OUTBREAK STATUS

January 1975



Compiled By  
U. S. Forest Service  
SOUTHEASTERN AREA  
State and Private Forestry  
Atlanta, Georgia

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## SOUTHERN PINE BEETLE

### FY 1975 Status Summary

Ownership	Infested Volume Salvaged		Funds Expended	Acreage Treated <sup>1/ 3/</sup> acres
	MBF	MCF		
State & Private	92,690	28,449	1,019,880 <sup>2/</sup>	45,666
Federal	21,086	1,875	349,141	4,928
SA Total	113,776	30,324	1,369,021	50,594

- 1/ Estimated combined total acreage of salvaged infested, piled and burned, and chemically treated trees.
- 2/ Cooperative State projects financed 50% State - 50% Federal.
- 3/ Salvage treatment acreage calculated from salvage volumes at 800 cubic feet per acre; pile and burn and chemical treatment acreages are not included for all State and Private lands.

### Outlook for the Remainder of FY 1975

Ownership	Total Acreage of Susceptible Host Type in SA <sup>4/ 5/</sup>	Net Acreage of Host Type in Outbreak	Balance of Federal Funds Requested for Control Projects
State & Private	90,517,200	49,339,592	\$ 717,878
Federal	9,690,100	2,908,797	\$ 333,717
SA Total	100,207,300	52,248,389	\$ 1,051,595

- 4/ Includes longleaf, slash, sand, and spruce pine acreages not previously included for some States.
- 5/ Includes susceptible host type acreage in Kentucky and Oklahoma not currently in the outbreak area.

States with Cooperative Suppression Projects - 9:

Alabama  
Arkansas  
Georgia

Louisiana  
Mississippi  
North Carolina

South Carolina  
Texas  
Virginia

Federal Administrative Units with Suppression Projects - 12:

National Forests in Alabama  
Eglin Air Force Base, Florida  
Chattahoochee - Oconee National Forests, Georgia  
Kisatchie National Forest, Louisiana  
National Forests in Mississippi  
National Forests in North Carolina  
Francis Marion - Sumter National Forests, South Carolina  
Cherokee National Forest, Tennessee  
Oak Ridge National Laboratory, Atomic Energy Commission, Tennessee  
National Forests in Texas  
George Washington National Forest, Virginia  
Jefferson National Forest, Virginia

Summary

Outbreak intensity, expressed as infested counties, remained relatively static in the area from Alabama to Texas. Florida joined the infested Atlantic Coast States for the first time, contributing one county in this area north to Virginia which experienced a gain of 29 counties since last July. A total of 376 counties are now included within the outbreak boundary.

State and U.S. Forest Service entomologists forecast a continuation of aggressive beetle activity from Florida to Virginia and slight seasonal increases in the Alabama to Texas area.

## APPENDIX



Appendix Table 1. Area of Susceptible Host Types in the Southeast by Ownership Class.  
1/ (thousand acres)

State	Ownership	Loblolly	Shortleaf	Pitch	Slash	Longleaf	Oak - Pine	Pond	Longleaf	Shortleaf Slash	Shortleaf Loblolly	Virginia	Pines 2/	Total
Alabama	Private	--	--	--	--	--	4,614.5	--	1,854.4	7,132.3	--	--	13,601.2	
	Public	--	--	--	--	--	220.4	--	144.3	305.5	--	--	670.2	
	Total	--	--	--	--	--	4,834.9	--	1,998.7	7,437.8	--	--	14,271.4	
Arkansas	Private	--	--	--	--	--	2,466.6	--	--	2,982.5	--	--	5,449.1	
	Public	--	--	--	--	--	573.0	--	--	685.5	--	--	1,258.5	
	Total	--	--	--	--	--	3,039.6	--	--	3,668.0	--	--	6,707.6	
Florida	Private	339.9	34.5	--	4,896.1	1,132.0	1,365.0	261.8	--	--	--	235	8,264.3	
	Public	4.5	--	--	528.8	399.6	303.3	81.8	--	--	--	277.7	1,595.7	
	Total	344.4	34.5	--	5,424.9	1,531.6	1,668.3	343.6	--	--	--	512.7	9,860.0	
Georgia	Private	4,818.4	1,637.9	--	3,934.4	1,500.8	3,350.7	285.0	--	--	265.0	3.7	15,795.9	
	Public	256.3	97.4	--	165.5	109.2	289.2	19.5	--	--	35.4	14.4	986.9	
	Total	5,074.7	1,735.3	--	4,099.9	1,610.0	3,639.9	304.5	--	--	300.4	18.1	16,782.8	
Kentucky	Private	--	--	--	--	--	443.5	--	--	--	--	--	326.2	
	Public	--	--	--	--	--	113.9	--	--	--	--	--	41.5	
	Total	--	--	--	--	--	557.4	--	--	--	--	--	367.7	
Louisiana	Private	--	--	--	--	--	2,034.4	--	1,068.6	4,161.4	--	--	7,264.4	
	Public	--	--	--	--	--	135.0	--	151.5	277.9	--	--	564.4	
	Total	--	--	--	--	--	2,169.4	--	1,220.1	4,439.3	--	--	7,828.8	
Mississippi	Private	--	--	--	--	--	2,969.8	--	1,051.6	3,718.8	--	--	7,740.2	
	Public	--	--	--	--	--	402.2	--	283.8	523.8	--	--	1,209.8	
	Total	--	--	--	--	--	3,372.0	--	1,335.4	4,242.6	--	--	8,950.0	
North Carolina	Private	3,009.6	1,037.1	32.9	32.5	359.6	3,326.4	1,181.0	--	--	780.2	117.6	9,876.9	
	Public	111.7	42.6	13.0	--	102.5	230.2	227.6	--	--	8.9	41.5	778.0	
	Total	3,121.3	1,079.7	45.9	32.5	462.1	3,556.6	1,408.6	--	--	789.1	159.1	10,654.9	
Oklahoma	Private	--	--	--	--	--	568.2	--	--	675.6	--	--	1,243.8	
	Public	--	--	--	--	--	96.1	--	--	119.7	--	--	215.8	
	Total	--	--	--	--	--	664.3	--	--	795.3	--	--	1,459.6	
South Carolina	Private	2,588.9	772.9	4.6	501.6	388.4	1,970.8	344.7	--	--	151.7	8.7	6,732.3	
	Public	327.6	101.2	--	72.6	118.9	154.0	40.7	--	--	151.0	--	825.9	
	Total	2,916.5	874.1	4.6	574.2	507.3	2,124.8	385.4	--	--	998.8	--	38.9	
Tennessee	Private	--	--	--	--	--	998.7	--	--	847.8	--	--	6,904.8	
	Public	--	--	--	--	--	199.3	--	--	10.6	593.7	--	668.5	
	Total	--	--	--	--	--	1,198.0	--	--	2,241.9	4,315.0	--	7,573.3	
Texas	Private	--	--	--	--	--	64.2	--	--	2,306.1	358.5	--	2,235.7	
	Public	--	--	--	--	--	--	--	--	2,241.9	4,908.7	--	--	
	Total	--	--	--	--	--	--	--	--	2,241.9	4,908.7	--	--	
Virginia	Private	1,077.6	323.8	32.4	--	--	2,326.8	2.6	--	--	--	1,174.4	72.7	
	Public	38.3	15.2	31.2	--	--	210.5	--	--	21.4	71.3	--	5,010.3	
	Total	1,115.9	339.0	63.6	--	--	2,537.3	2.6	--	2,537.3	1,245.7	--	5,398.2	
Total	Private	11,834.4	3,806.2	69.9	9,364.6	3,380.8	28,677.3	2,075.1	4,322.5	23,833.4	2,371.3	780.9	90,516.4	
	Public	738.4	256.4	44.2	766.9	730.2	2,991.3	.369.6	.590.2	2,657.1	126.5	418.4	9,689.2	
All	Ownership	12,572.8	4,062.6	114.1	10,131.5	4,111.0	31,668.6	2,444.7	4,912.7	26,490.5	2,497.8	1,199.3	100,205.6	

1/ Data extracted from U.S. Forest Service Resource Bulletins published by the Southern and Southeastern Forest Experiment Stations.

2/ Includes sand, spruce, table mountain, and white pines.

Table 2.

## SITUATION AND ACCOMPLISHMENT 1972 - 1974

State	Ownership	FY 1972				FY 1973				FY 1974				
		Gross Outbreak Area <u>1/</u>	Federal Funds Expended \$	Infested Volume Salvaged MBF	Gross Outbreak Area <u>1/</u>	Federal Funds Expended \$	Infested Volume Salvaged MBF	Gross Outbreak Area <u>1/</u>	Federal Funds Expended \$	Gross Outbreak Area <u>1/</u>	Federal Funds Expended \$	Infested Volume Salvaged MBF	MCF	
Alabama	Private	---	---	---	15,000,000	500,000	66,722	20,377	15,000,000	475,000	28,843	12,670		
	Federal	203,000	13,293	804	500,000	180,064	6,194	502	1,270,240	74,658	1,815	185		
	Total	203,000	13,293	804	15,500,000	680,064	72,916	20,839	16,270,240	549,658	30,658	12,855		
Arkansas	Private	---	---	---	645,000	22,952	879	188	1,336,000	21,285	341	160		
	Federal	---	---	---	645,000	22,952	879	188	1,336,000	21,285	341	160		
	Total	---	---	---	---	---	---	---	---	---	---	---		
Georgia	Private	2,000,000	988	290	9,200,000	38,000	3,920	2,717	9,018,130	96,000	31,282	13,099		
	Federal	296,690	10,960	4,767	700,000	51,396	6,431	628	1,336,132	50,124	3,937	315		
	Total	2,296,690	11,948	5,057	9,900,000	89,396	10,351	3,345	10,354,262	146,124	35,219	13,414		
Louisiana	Private	4,000,000	26,000	16,000	450	7,500,000	285,000	17,826	2,668	6,800,000	100,000	1,292	158	
	Federal	561,000	60,630	6,550	600,000	59,894	2,742	411	1,017,287	32,000	820	33		
	Total	4,561,000	86,630	22,550	450	8,100,000	344,894	20,568	3,079	7,817,287	132,000	2,112	191	
Mississippi	Private	---	---	---	---	1,600,000	44,960	240	518	1,652,600	56,210	830	451	
	Federal	188,615	17,168	3,000	200,000	50,034	2,513	10	373,497	36,618	3,351	0		
	Total	188,615	17,168	3,000	1,800,000	94,994	2,753	528	2,026,097	92,828	4,181	451		
North Carolina	Private	4,327,717	9,579	21,025	---	6,700,000	62,841	20,143	2,351	13,500,000	110,471	41,833	6,431	
	Federal	631,220	21,110	900	600,000	41,448	2,012	110	2,752,430	33,000	2,459	705		
	Total	4,958,937	30,689	21,925	7,300,000	104,289	22,155	2,461	16,252,430	143,471	44,292	7,136		
South Carolina	Private	514,000	---	---	113	3,600,000	---	544	558	3,900,000	47,500	5,101	10,725	
	Federal	481,479	22,070	2,767	113	1,300,000	55,183	2,902	814	1,474,444	35,250	3,120	377	
	Total	995,479	22,070	2,767	4,900,000	55,183	3,446	1,372	5,249,444	82,750	8,221	11,102		
Tennessee	Private	---	---	---	---	---	---	---	---	1,714,984	---	676	9	
	Federal	50,000	15,700	579	80,000	22,350	341	69	1,338,136	27,068	620	121		
	Total	50,000	15,700	579	80,000	22,350	341	69	2,053,120	27,068	1,296	130		
Texas	Private	6,200,000	45,000	2,000	---	8,000,000	165,000	28,000	811	8,000,000	185,000	4,941	381	
	Federal	80,000	4,800	300	700,000	56,924	4,847	185	1,716,967	140,835	17,004	643		
	Total	6,280,000	49,800	2,300	8,700,000	221,924	32,847	996	9,716,967	325,835	21,945	1,024		
Virginia	Private	---	---	---	4,600,000	---	6,000	2,700	6,889,600	9,500	11,326	4,090		
	Federal	---	---	---	71,485	9,460	180	497	3,689	15,910	2,500	729		
	Total	---	---	---	4,671,485	9,460	6,180	3,197	6,963,289	25,410	13,826	4,819		
SA TOTALS	Private	17,041,717	\$ 81,567	39,315	563	56,845,000	\$ 1,118,753	144,274	32,848	67,686,314	\$ 1,100,966	126,990	48,175	
	Federal	2,492,004	\$ 165,731	19,667	4,751,485	\$ 526,753	28,162	3,226	10,352,822	\$ 445,463	35,626	3,108		
	Total	19,533,721	\$ 247,298	58,982	563	61,596,485	\$ 1,645,506	172,436	36,074	78,039,136	\$ 1,546,429	162,616	51,283	

1/ Total acreage of all counties within outbreak area. See Table 4.

Table 3. Southern Pine Beetle Status - FY 1975

State	Ownership	Federal Funds Received				Infested Volume		Total Acreage of Host Type		Current Status and Course of Outbreak 1/
		Federal Funds Requested	Federal Funds Received	First Half FY 1975	Salvaged MBF	First Half FY 1975 MCF	Total	1/	1/	
Alabama	Private Federal Total	500,000 76,247 579,247	150,000 35,624 189,624	5,878 387 6,265	5,608 81 5,689	13,601,200 670,200 14,271,400	\$,633,200 636,712 10,269,912			Population levels are increasing in the north and decreasing in the south with most infestations appearing in the Piedmont and Northwest. Overall populations are down from the initial outbreak in 1972. There are 33 counties with epidemic populations and 16 counties with endemic populations.
Arkansas	Private Federal Total	25,190 --- 25,190	25,190 --- 25,190	425 --- 425	167 --- 167	5,449,100 1,258,500 6,707,600	938,900 --- 938,900		Most infestations are occurring in the extreme southeastern part of the State. Levels have dropped off in Drew, Ashley, and Bradley Counties and increased in Union County.	
Florida	Private Federal Total	27,233 2/ 27,233	27,233 ---	---	---	8,265,100 1,595,700 9,860,800	119,900 39,200 155,900		The worst outbreak in 25 years was recently discovered in the Alachua Creek area of Eglin Air Force Base. Evaluations indicate high population pressures in this area. Only one county, Walton, is involved.	
Georgia	Private Federal Total	215,000 52,100 267,000	107,500 31,400 138,900	10,402 3,875 14,277	3,168 239 3,407	15,795,900 986,900 16,782,800	7,768,000 415,170 8,183,170		Spots have increased in 42 counties, decreased in 32 and remained static in 5. The outbreak in the Chatham county area has spread to 3 additional counties since July. However, a 90% reduction in the number of spots has occurred.	
Louisiana	Private Federal Total	35,000 48,400 83,400	---	1,119 24,200 24,200	127 167 2,909 4,028	7,264,400 564,400 7,828,800	5,300,300 322,400 5,622,700		Population levels overall have decreased and remain at endemic levels throughout the State. Some buildup is expected.	
Mississippi	Private Federal Total	43,250 61,824 105,074	21,625 32,637 54,262	256 1,781 2,037	147 --- 147	7,740,200 1,209,800 8,950,000	2,059,400 250,242 2,309,642		Populations remain static with decreased activity in the southwestern portions of the State. In northeastern areas, activity is spreading, and an increase in infestation levels is expected.	
North Carolina	Private Federal Total	154,878 27,885 182,763	78,375 27,885 106,260	41,089 1,117 42,206	7,671 304 7,975	9,876,900 778,000 10,654,900	8,947,227 198,818 9,106,045		The outbreak continues to increase throughout the State with a high potential for heavy losses this summer. A current aerial survey is showing dramatic increases in the numbers and size of spots.	
South Carolina	Private Federal Total	40,000 72,105 112,105	20,000 17,500 37,500	10,592 1,900 1,900	8,908 373 9,281	6,732,300 826,800 7,559,100	5,024,100 292,554 5,346,654		Losses are low to moderate throughout most of the outbreak area. Populations are extremely high in most coastal counties and the potential for many losses is high this spring and summer. Piedmont populations are static and unpredictable.	
Tennessee	Private Federal Total	---	---	170	21	1,863,500 372,200	868,046 135,244		Scattered infestations are increasing rapidly in two newly infected counties, and enlarging in all counties in the current outbreak. Tennessee should experience its heaviest losses to date this summer.	
Texas	Private Federal Total	10,200 10,200	5,100 5,100	564 734	168 189	2,235,700	1,003,290		Populations remain high and are expected to stay at about the same level next year. Activity is heaviest in the western half of the outbreak area but continues to spread to the north and northeast.	
Virginia	Private Federal Total	14,500 35,000 49,500	7,250 17,500 24,750	13,399 20 13,419	2,076 6 2,082	5,010,300 387,900 5,398,200	2,862,056 101,220 2,963,276		Populations remain at high static levels in the central Piedmont while continued upswing in the Coastal Plain and northern Piedmont counties. Wood-pecker predation is higher this winter. Overwintering beetle populations remain high due to the mild winter.	
SA Totals	Private Federal Total	1,227,318 661,743 1,889,561	509,940 349,141 859,081	92,690 21,086 113,776	28,449 1,875 30,324	88,503,700 9,318,900 97,822,600	49,339,592 2,908,797 52,248,389			

1/ Figures include longleaf, slash, sand, and spruce pine acreages not previously included. Addition reflects the significant increase of beetle infestations of these pine species previously thought to be of minor importance as hosts.

2/ Anticipated request; proposal not received by February 28, 1975.

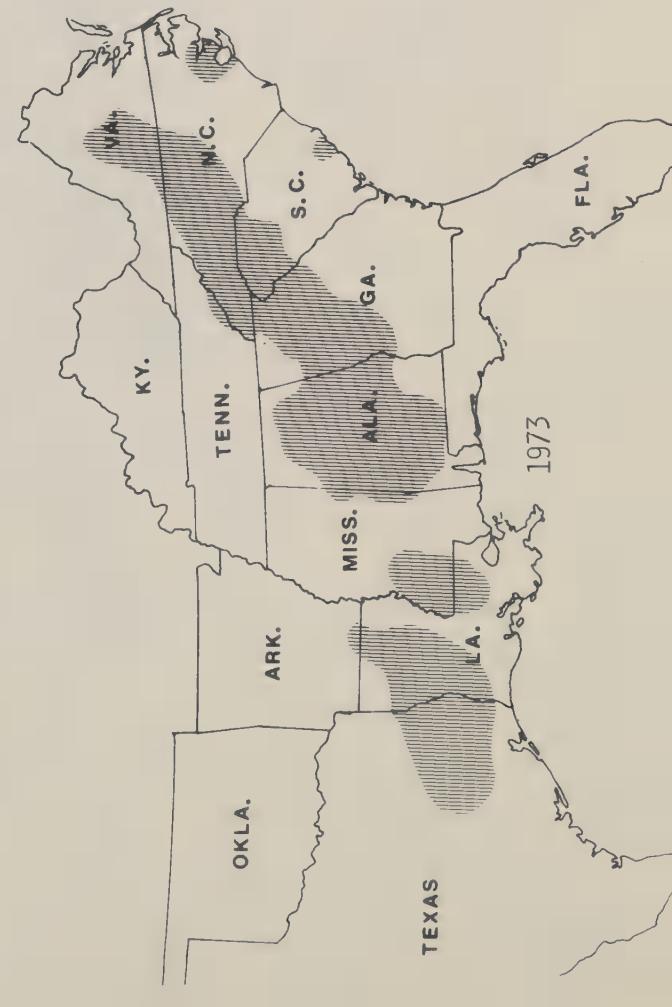
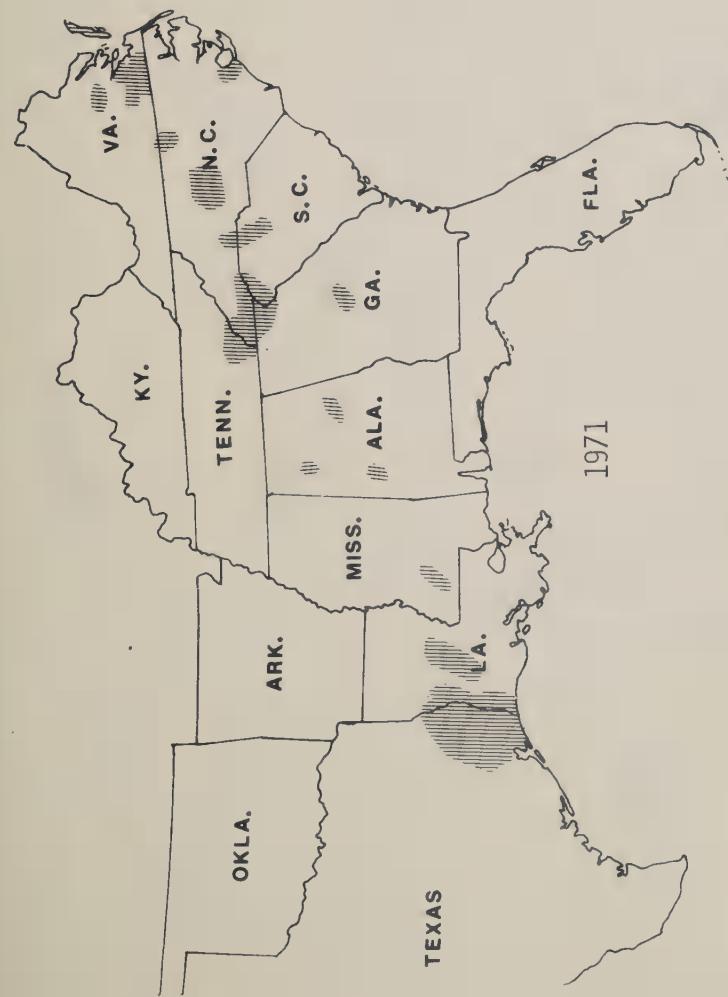
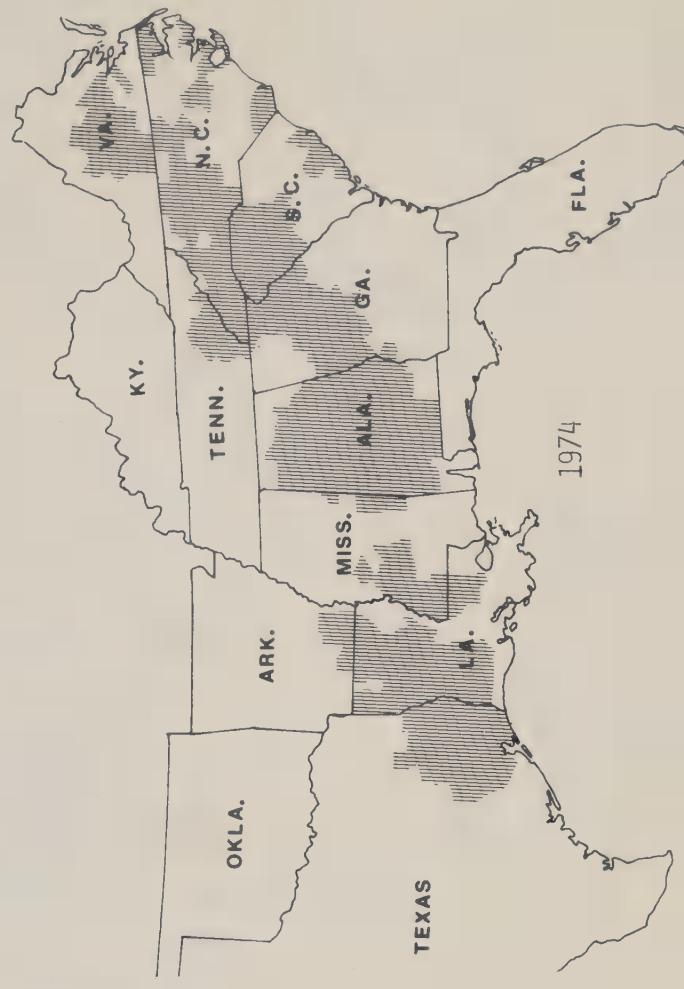
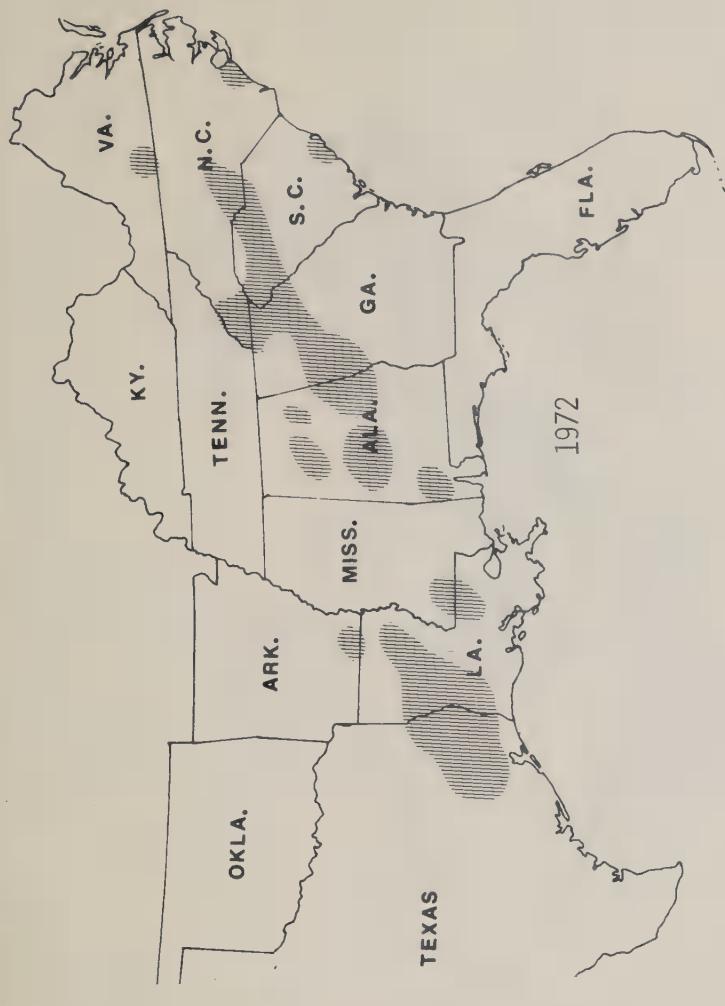
Table 4. Southern Pine Beetle Outbreak Intensity, January 1975.

State	Total Number of Counties in State	Number of Counties w/Susceptible Host Type in State <sup>1/</sup>	Number of Infested Counties in Current Outbreak			
			Jul 73	Jan 74	Jul 74	Jan 75
Alabama	67	67	53	53	50	49
Arkansas	75	47	4	2	4	4
Florida	67	67	0	0	0	1
Georgia	159	158	58	56	70	79
Louisiana	64	38	31	31	21	22
Mississippi	82	69	17	18	14	14
North Carolina	100	100	60	71	81	89
South Carolina	46	46	22	22	26	28
Tennessee	95	55	10	13	13	15
Texas	254	44 <sup>2/</sup>	22	22	26	26
Virginia	98	87	26	27	42	49
SA Total	1,107	778	303	315	347	376

1/ Susceptible host types include loblolly, shortleaf, pitch, pond, Virginia, table mountain, longleaf, slash, sand, spruce, and white pines.

2/ East Texas counties only.

FIGURE 1 CHRONOLOGICAL DEVELOPMENT OF THE SOUTHERN PINE BEETLE OUTBREAK FY 1971 - FY 1974





# SOUTHEASTERN AREA

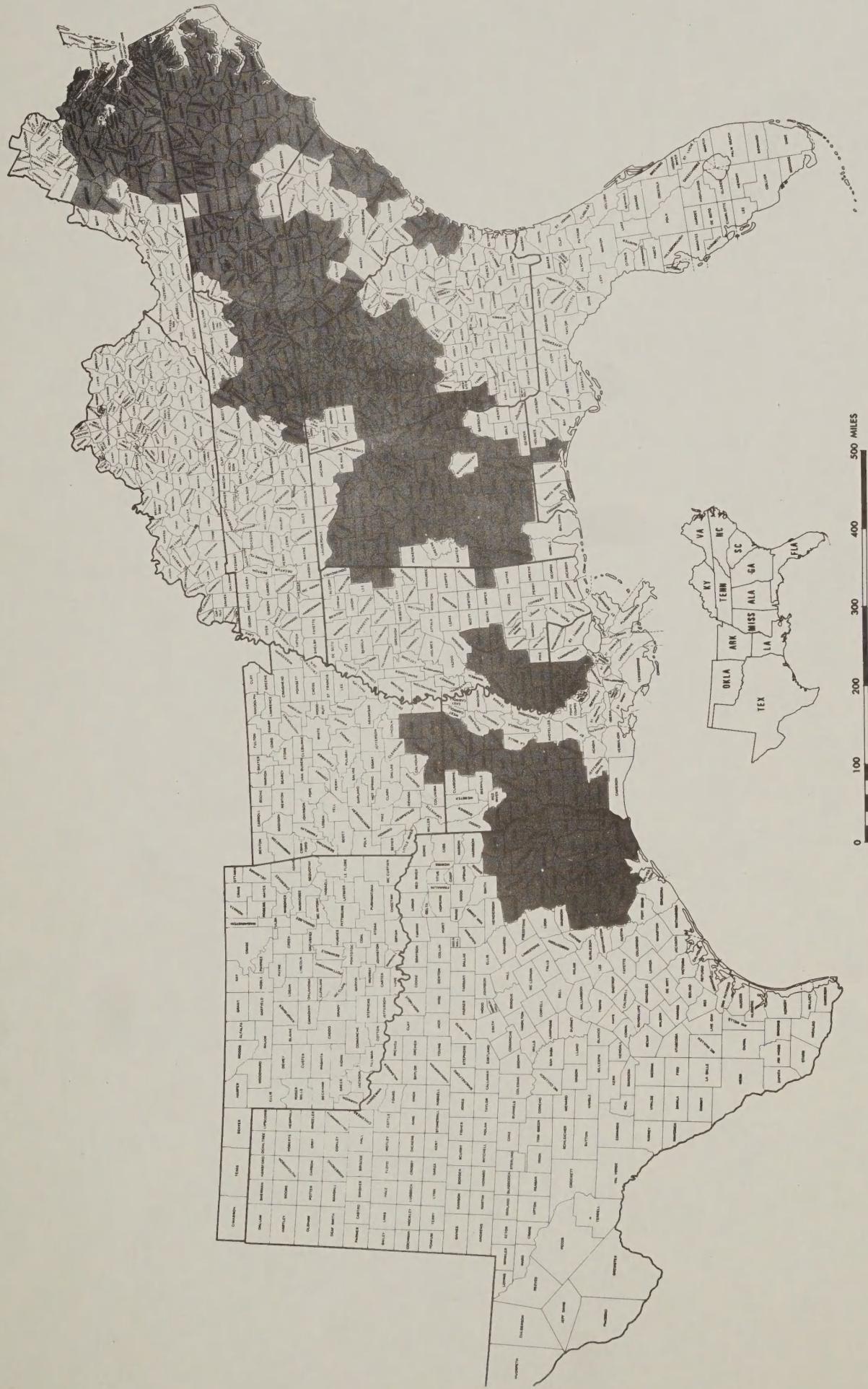


FIGURE 2 FY 1975 LOCATION OF SOUTHERN PINE BEETLE OUTBREAK, SOUTHEASTERN AREA





